

## ABSTRACT

[0084] An application based power management system comprises a power management application executed on a first device, wherein the power  
5 management application monitors communications interfaces for a plurality of applications in communication with one or more devices in a wireless environment, such that the power management application determines bandwidth and latency characteristics for each of the plurality of applications, and determines  
10 respective power management settings for each of the corresponding plurality of applications, wherein each respective power management setting optimizes data communicated by each of the applications in accordance with the corresponding bandwidth and latency characteristics.